

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Fumio KOYAMA et al.

Application No.: New Rule 53(b) Divisional of  
U.S. Patent Application No. 10/026,637

Filed: March 17, 2004

Docket No.: 111587.01

For: SURFACE EMITTING SEMICONDUCTOR LASER AND  
MANUFACTURING METHOD THEREOF

INFORMATION DISCLOSURE STATEMENT

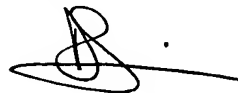
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 CFR §1.56, the attention of the Patent and Trademark Office is hereby directed to the reference(s) listed on the attached PTO-1449. Unless otherwise indicated herein, one copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the reference(s) be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

- ☒ 1. This Information Disclosure Statement is being filed (a) within three months of the U.S. filing date of this non-CPA application, OR (b) before the mailing date of a first Office Action on the merits in the present application. No certification or fee is required.
- ☒ 2. The references were cited by or submitted to the Office in parent application No. 10/026,637, filed December 27, 2001, which is relied upon for an earlier filing date under 35 U.S.C. §120. Thus, copies of these references are not attached. 37 CFR §1.98(d).

Respectfully submitted,



James A. Oliff  
Registration No. 27,075

Tarik M. Nabi  
Registration No. 55,478

JAO:TMN/dmw  
Date: March 17, 2004  
**OLIFF & BERRIDGE, PLC**  
**P.O. Box 19928**  
**Alexandria, Virginia 22320**  
**Telephone: (703) 836-6400**

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Form PTO-1449 (REV. 8-83)		US Dept. of Commerce PATENT & TRADEMARK OFFICE		ATTY DOCKET NO. 111587.01		APPLICATION NO. New Rule 53(b) Divisional of U.S. Patent Application No. 10/026,637	
INFORMATION DISCLOSURE STATEMENT  (Use several sheets if necessary)				APPLICANTS Fumio KOYAMA et al.			
				FILING DATE March 17, 2004		GROUP	

U.S. PATENT DOCUMENTS						
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS
		5,940,422	08/17/1999	Johnson		
		5,963,576	10/05/1999	Claisse et al.		
		5,917,848	06/29/1999	Claisse et al.		
		5,426,657	06/20/1995	Vakhshoori		

FOREIGN PATENT DOCUMENTS						
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)		
		Martinsson et al., "Transverse Mode Selection in Large-Area Oxide-Confined Vertical-Cavity Surface-Emitting Lasers Using a Shallow Surface Relief", IEEE PHOTONICS TECHNOLOGY LETTERS, vol. 11, no. 12, December 1999 pp. 1536-1538.
		Dowd et al., "Mode Control in Vertical-Cavity Surface-Emitting Lasers by Post-Processing Using Focused Ion-Beam Etching", IEEE PHOTONICS TECHNOLOGY LETTERS, vol. 9, no. 9, September 1997 pp. 1193-1195.
		Claisse et al., "Single high order mode VCSEL", ELECTRONICS LETTERS, vol. 34, no. 7, April 1998, pp. 681-682.
		Warren et al., "On-axis far-field emission from two-dimensional phase-locked vertical cavity surface-emitting laser arrays with an integrated phase-corrector", APPLIED PHYSICS LETTERS, vol. 61, no. 13, September 1992, pp. 1484-1486.

EXAMINER	DATE CONSIDERED
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Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Date: March 17, 2004